

## *Paris xichouensis*, a new combination of Trilliaceae from China

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**Abstract** *Paris xichouensis* (H. Li) Y. H. Ji, H. Li & Z. K. Zhou is proposed as a new combination based on *P. cronquistii* (Takht.) H. Li var. *xichouensis* H. Li. This species is similar to *P. cronquistii* (Takht.) H. Li and *P. vietnamensis* (Takht.) H. Li, but differs by the leaf blade papery, the petals green, much shorter than sepals, and the capsule green-yellow at maturity.

**Key words** *Paris*, *Paris xichouensis*, Trilliaceae, new combination.

*Paris cronquistii* (Takht.) H. Li is an evergreen perennial herb endemic to southwestern China (southeastern Yunnan, southwestern Guangxi, southern Guizhou, and central to southern Sichuan) (Li, 1986, 1998). Li (1986) described *Paris cronquistii* (Takht.) H. Li var. *xichouensis* H. Li from southeastern Yunnan. In the course of making a revision of the genus *Paris* L. of the world, we examined a large number of specimens of *Paris*, and found that the variety is morphologically obviously different from the typical variety *P. cronquistii* var. *cronquistii* and the other species in this genus, and thus should be raised to the specific status. A new combination, *P. xichouensis* (H. Li) Y. H. Ji, H. Li & Z. K. Zhou, is proposed herein.

**Paris xichouensis** (H. Li) Y. H. Ji, H. Li & Z. K. Zhou, comb. & stat. nov.—*Paris cronquistii* (Takht.) H. Li var. *xichouensis* H. Li in Bull. Res. Harbin 6 (1): 113, fig. 1. 1986; H. Li in Z. Y. Wu, Fl. Yunnan. 8: 654. 1997; H. Li, The Genus *Paris* (Trilliaceae) 26, fig. 4-1. 1998; S. Y. Liang & V. G. Soukup in Z. Y. Wu & P. H. Raven, Fl. China. 24: 90. 2000. Type: China. Yunnan (云南): Xichou (西畴), alt. 1460 m, 1964-05-26, S. Z. Wang (王守正) 486 (holotype, KUN!; isotype, KUN!).

西畴重楼 新组合

Additional specimens examined:

**China. Yunnan** (云南): Malipo (麻栗坡), S. X. Yang & X. Gong (杨世雄, 龚洵) 98846 (KUN); Xichou (西畴), Y. H. Ji (纪运恒) 0249 (KUN).

*Paris xichouensis* is similar to both *P. cronquistii* and *P. vietnamensis* (Takht.) H. Li in the evergreen habit, the 4–6 leaves, the stamens ca. 25 mm long, 3–4-whorled, the free portion of connectives short, apex wanting or nearly wanting, and the capsule 4–6-ribbed, but differs in the leaf blade papery, the petals green, much shorter than sepals, and the capsule green-yellow at maturity. A detailed comparison of *P. xichouensis*, *P. cronquistii*, and *P. vietnamensis* is given in Table 1.

*Paris xichouensis* is a Chinese endemic species only found in Xichou and Malipo, southeastern Yunnan. It grows under evergreen broadleaf forest. According to the IUCN (2001) red list categories and criteria, it should be categorized as an endangered species.

**Table 1** Comparison of *Paris xichouensis* and its related species

	<i>P. xichouensis</i>	<i>P. cronquistii</i>	<i>P. vietnamensis</i>
Leaf blade	papery, glabrous	membranous, sometimes adaxially pubescent, abaxially purple or mottled with purple	membranous, glabrous
Petal	green, linear, apex widening, much shorter than sepals	yellow-green, narrowly linear, longer or slightly shorter than sepals	yellow-green, linear, much longer than sepals
Stamen	filaments purple; anther sacs red-brown	filaments green; anther sacs yellow	filaments purple; anther sacs yellow
Capsule	green-yellow at maturity	red at maturity	yellow-red at maturity
Seed	enveloped by orange sarcotesta	enveloped by red sarcotesta	enveloped by orange sarcotesta

References

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中国重楼属(延龄草科)一新组合——西畴重楼

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**摘要** 将*Paris cronquistii* (Takht.) H. Li var. *xichouensis* H. Li提升为一独立的种，即西畴重楼*Paris xichouensis* (H. Li) Y. H. Ji, H. Li & Z. K. Zhou。该种与凌云重楼*P. cronquistii*和越南重楼*P. vietnamensis* (Takht.) H. Li近似，但叶纸质，花瓣绿色，远短于萼片，蒴果成熟时绿黄色而不同。

**关键词** 重楼属; 西畴重楼; 延龄草科; 新组合